

Work Order ID 153834***153834***

Page 1

Friday, November 25, 2016 7:43:53 AM

Item ID: 647.7813

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Center Plate, Lower

Start Date: 12/9/2016 Start Qty: 6.00

6

Cust Item ID:

Required Date: 12/16/2016 Req'd Qty: 6.00

6

Customer:

Reference:

Approvals:

Process Plan:

DAS
21

Date: NOV 30 2016 Tooling:

Date:

QC:

9-89

Date:

SPC (Y/N):

Date:

Run Start ***NR1***Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

647.7800

A

100

0.00

100

BAND SAW

Bandsaw

Memo

0.00

Jeaspa Bandsaw

Cut Blank at 3.375"

110

0.12

110

HAAS CNC VERTICAL MACHINING #1

HAAS 1

Memo

0.22

HAAS CNC vertical machine #1

1-Machine per folio FB236

DWG REV: AFOLIO REV: AA

2- deburr and break all sharp edges

DAS
45
9-89DAS
44
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Work Order ID 153834***153834***

Page 2

Friday, November 25, 2016 7:43:53 AM

Item ID: 647.7813

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Center Plate, Lower

Start Date: 12/9/2016 Start Qty: 6.00

6

Cust Item ID:

Required Date: 12/16/2016 Req'd Qty: 6.00

6

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC2- Inspect parts off machine FAI/FAIB	0.00							DAS 44 9-89 16-12-03
120						6	0		
QC	Memo	0.01							
Quality Control									
130	QC8- Inspect parts - second check	0.00							
130						6			16-12-05
QC	Memo	0.02							
Quality Control									
140	Outsource process-Anodize per QSI017 4.1.10.1	0.00							DAS 13 9-89
140						6			DEC 15 2016
Outsource4	Memo	179.99							
Outsource process - Anodize	Issue P/O to ATG : 34644								
	1- Black Anodize as per Dwg 647.7800								
	2- PRIME AS PER DWG, SEE NOTE #2								
	Certification of Comformity is required								

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : _____									

Work Order ID 153834***153834***

Page 3

Friday, November 25, 2016 7:43:53 AM

Item ID: 647.7813 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Center Plate, Lower
Start Date: 12/9/2016 Start Qty: 6.00 ***6*** Cust Item ID:
Required Date: 12/16/2016 Req'd Qty: 6.00 ***6*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Receive & Inspect for Damage & Mat'l Certs	0.00							
150									
Packaging	Memo	0.02							
Packaging									
160	QC5- Inspect part completeness to step on W/O	0.00							
160									
QC	Memo	0.02							
Quality Control									
	1.5 mills primer								
180	Identify as per dwg & Stock Location. <u>CC14</u>	0.00							
180									
Packaging	Memo	0.01							
Packaging	***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***								

6x SP17-01-9.

6

DAS 38 9-89 JAN 12 2017

6 JAN 13 2017

DAS 6 9-89

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Description Work Order Deviation				Disposition							

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				OTHER : ☐			

Work Order ID 153834***153834***

Page 4

Friday, November 25, 2016 7:43:53 AM

Item ID: 647.7813

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Center Plate, Lower

Start Date: 12/9/2016 Start Qty: 6.00

6

Cust Item ID:

Required Date: 12/16/2016 Req'd Qty: 6.00

6

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

190

QC21- Final Inspection - Work Order Release

0.00

190DAS
21
9-89

JAN 16 2017

QC

Memo

0.10

Quality Control

mf
17-1-13

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
						QC / QA Coordinator Approval			

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

Friday, November 25, 2016 7:43:53 AM

Page 1

Work Order ID: 153834

153834

Parent Item: 647.7813

647 7813

Parent Item Name: Center Plate, Lower

Start Date: 12/9/2016

Required Date: 12/16/2016

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP REV A 14/01/07 VERIFIED BY DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M7075T6B0.750X4.000		Purchased			No	100	f	12.5210	0.281	1.774737			

M7075T6B0 750X4 000

7075-T6 BAR 0.750" X 4.000"

Location

Loc Qty

Loc Code

MAT005

12.521

m127860

0.521

m133589

12

DAS

45

9-89

16-12-01

1.775

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
NC	LAST PROTOTYPE RELEASE: P12		NC
NC	INITIAL RELEASE	12-21-09	P. BRAVO
A	INCORPORATED ECH 1028 DART 5 00028	03-02-10	P. BRAVO

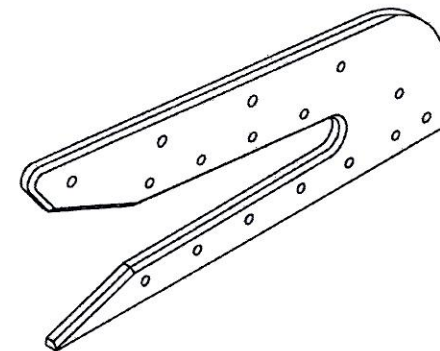
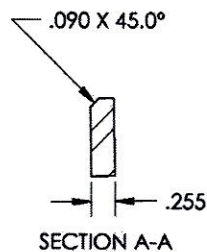
NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH IAW MPP-172 SECTION 3.3 & 4.3.
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 153834 MJS
10-11-30

	647.7823	CROSS BRACKET AFT	△	△
	647.7822	EYE BOLT FITTING RH	△	△
	647.7821	EYE BOLT FITTING LH	△	△
	647.7820	CROSS BRACKET AFT	△	△
	647.7819	CROSS BRACKET FWD	△	△
	647.7818	MOUNTING CHANNEL	△	△
	647.7817	AFT BRACKET	△	△
	647.7816	AFT BRACKET	△	△
	647.7815	FORWARD BRACKET	△	△
	647.7814	FORWARD BRACKET	△	△
	647.7813	CENTER PLATE LOWER	△	△
	647.7812	CENTER PLATE UPPER	△	△
	647.7811	BRACKET B	△	△
	647.7810	BRACKET A	△	△
F/N	PART #	DESCRIPTION	MAT'L	SPEC
PARTS LIST				
QTY	NEXT ASSY (S)		PARTS LIST	
647.7300	ORIGINAL DATE 11-03-09 DESIGNED BY CARLOS DRAWN BY I. ANDERSSON P. BRAVO DRAWING APPROVAL P. BRAVO DATE 10-11-30 CONTRACT NO.		DART AEROSPACE 3030 ENTERPRISE CT SUITE A VISTA, CA 92081 (760)-724-5300 AFICAL INDUSTRIES, INC. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.005 ANGLES ± .5°	
SER B		CAGE CODE 07M26	DWG. NO. 647.7800	REV. A
SCALE NONE			SHEET 1 OF 10	

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647.7810
647.7811 OPPOSITE

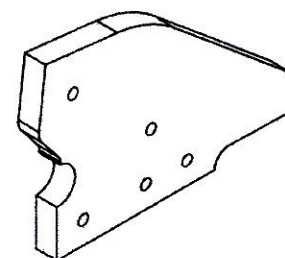
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A1	9.092±.002	3.332±.002	Ø.201 THRU
A2	6.906±.002	3.083±.002	Ø.201 THRU
A3	4.720	2.835±.002	Ø.201 THRU
B1	7.300±.002	.397±.002	Ø.177 THRU
B2	7.203±.002	2.369±.002	Ø.177 THRU
B3	6.050±.002	.415±.002	Ø.177 THRU
B4	5.961±.002	2.228±.002	Ø.177 THRU
B5	4.800±.002	.433±.002	Ø.177 THRU
B6	4.719±.002	2.088±.002	Ø.177 THRU
B7	3.550	.450	Ø.177 THRU
B8	3.476	1.947	Ø.177 THRU
B9	2.575	2.475	Ø.177 THRU
B10	2.380	.400	Ø.177 THRU
B11	1.250	.400	Ø.177 THRU
B12	1.160	1.220	Ø.177 THRU
B13	.500	.400	Ø.177 THRU

647.7810 SHOWN
647.7811 OPPOSITE

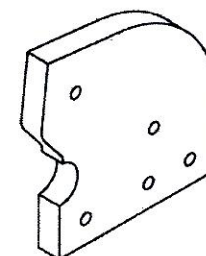
ORIGINAL DATE 11/05/09	3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300
DRAWN BY E. ANDERSON	CHECKED P. BRAVO
DRAWING APPROVAL P. BRAVO	APICAL INDUSTRIES INC. DBA DART AEROSPACE
CONTRACT NO.	BRACKET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .001 1 PLACE DECIMALS .005 ANGLES ± .5°	SEE CAD CODE DWG. NO. 8 07M26 647.7800 SCALE NONE SHEET 2 OF 10

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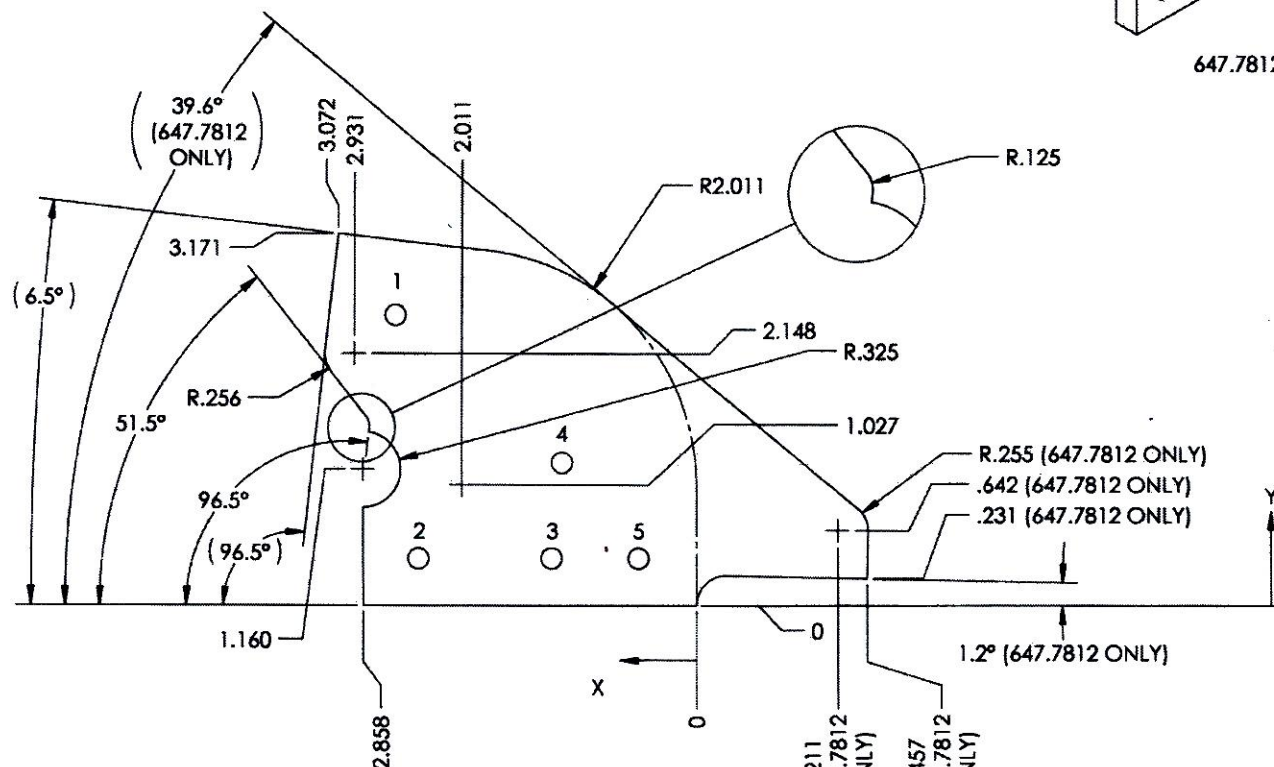
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2	2.380±.002	.400±.002	Ø.177 THRU
3	1.250±.002	.400±.002	Ø.177 THRU
4	1.160±.002	1.220±.002	Ø.177 THRU
5	.500±.002	.400±.002	Ø.177 THRU



647.7812



647.7813



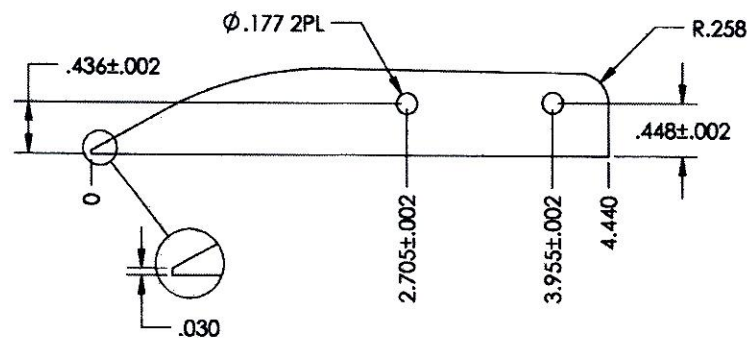
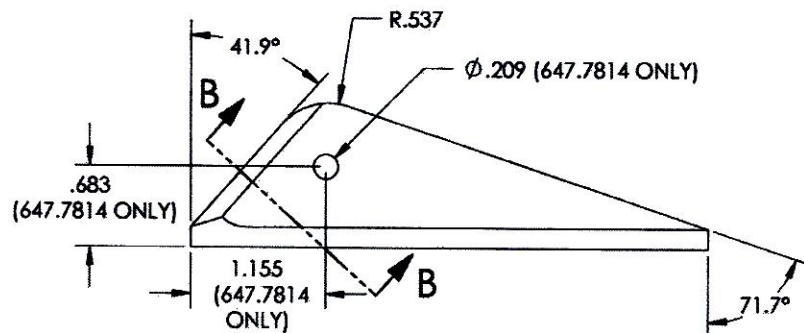
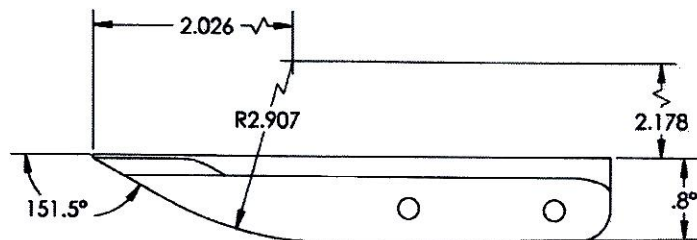
647.7812 AND 647.7813



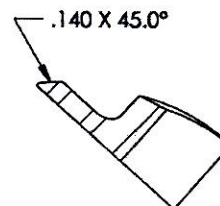
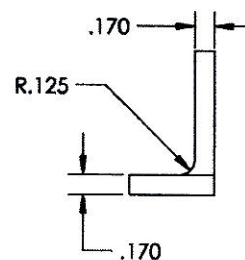
-.375±.002

ORIGINAL DATE (SAC/DATED)	11-06-09	 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)-724-5300 AEROSPACE AERIAL INDUSTRIES INC 8th FLOOR AEROSPACE	
ISSUED BY	CHUCKER HARRISON		
ISSUED TO	BRAND		
ISSUED APPROVAL	BY BRAND		
CONTRACT #	16		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. FRACTIONAL DIMENSIONS ±.01 2. PLACE DIMENSIONS ±.004 3. DECIMAL DIMENSIONS ±.002			
BRACKET			
SER.	CAD/COLOR	ENGR. NO.	REV.
1	07/26/02	647.780	
SCALE: NONE			SHEET 3 OF 10

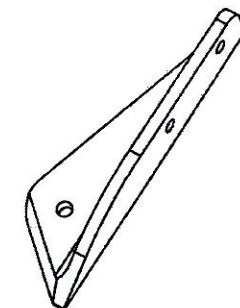
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



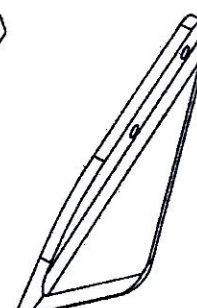
647.7814 SHOWN
647.7815 OPPOSITE



SECTION B-B



647.7814

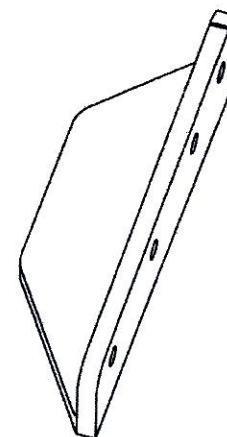
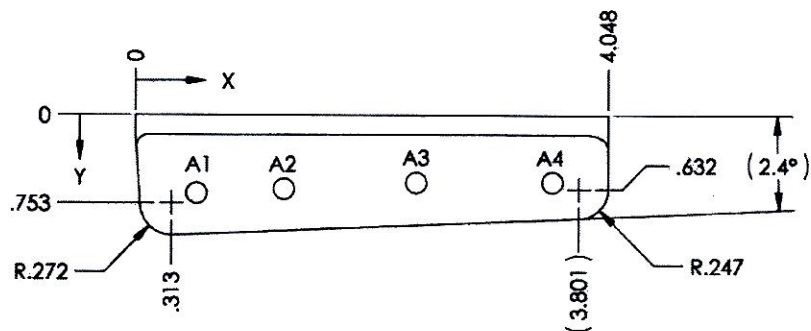


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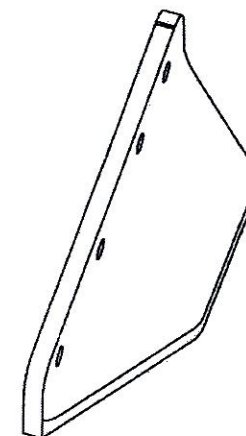
ORIGINAL DATE 11-05-09	DRAWN BY E. ANDERSON	CHECKED J. BRAVO	DART 3030 ENTERPRISE CT. SUITE A VISTA, CA. 92083 (760)-724-5300
DRAWING APPROVAL J. BRAVO	DATE 11-05-09	CONTRACT NO.	APICAL INDUSTRIES, INC. DBA DART AEROSPACE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS .001 3 PLACES DECIMALS .0005 ANGLES ± .5°	SHEET B	CAGE CODE 07M26	DWG. NO. 647.7800
	SCALE NONE	REV. A	SHEET 4 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES, DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES, DBA DART AEROSPACE IS PROHIBITED.

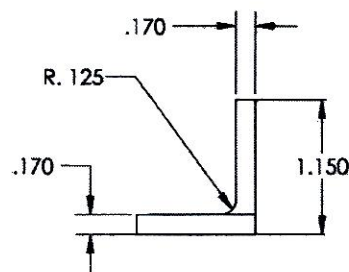
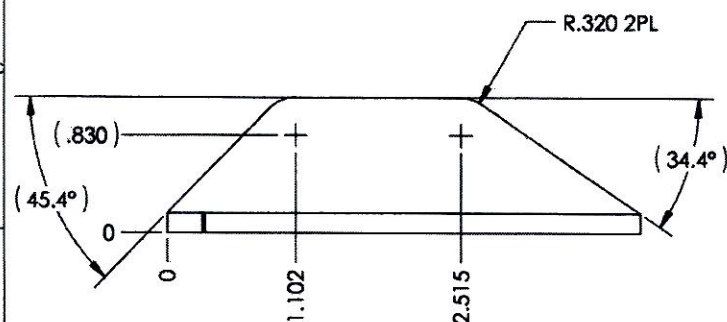
TAG	X LOC	Y LOC	SIZE
A1	.527±.002	.666±.002	Ø.177 THRU
A2	1.276±.002	.631±.002	Ø.177 THRU
A3	2.404±.002	.578±.002	Ø.177 THRU
A4	3.576±.002	.573±.002	Ø.177 THRU



647.7816



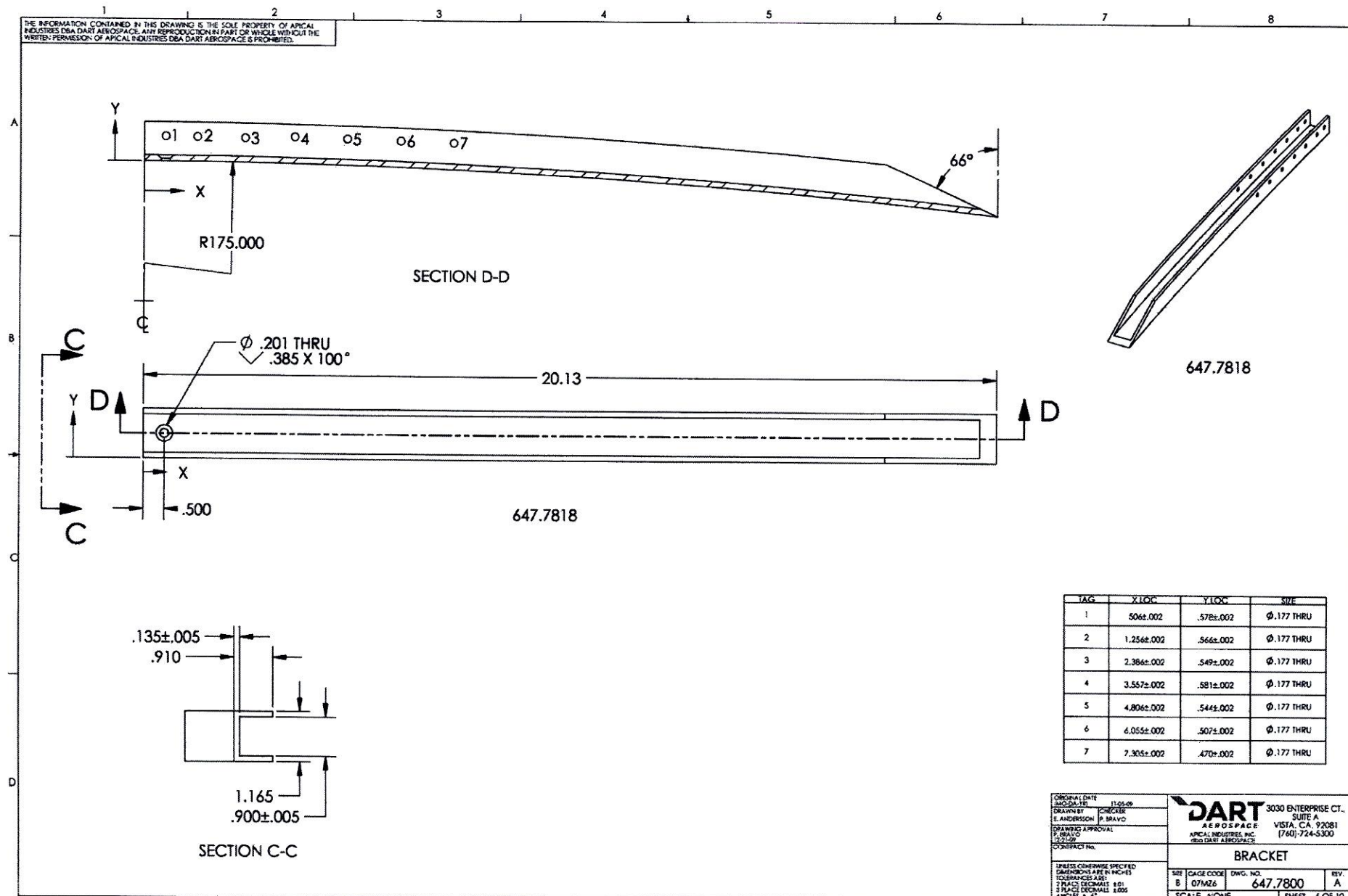
647.7817



647.7816 SHOWN
647.7817 OPPOSITE

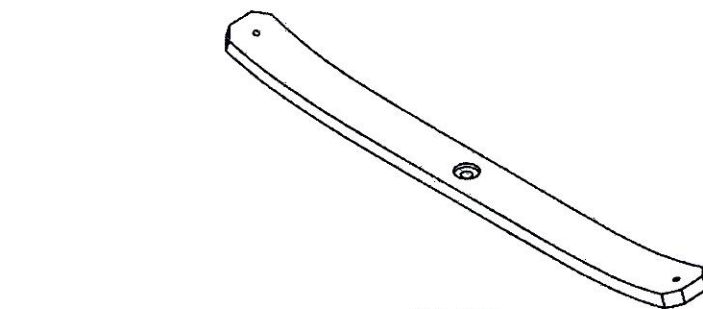
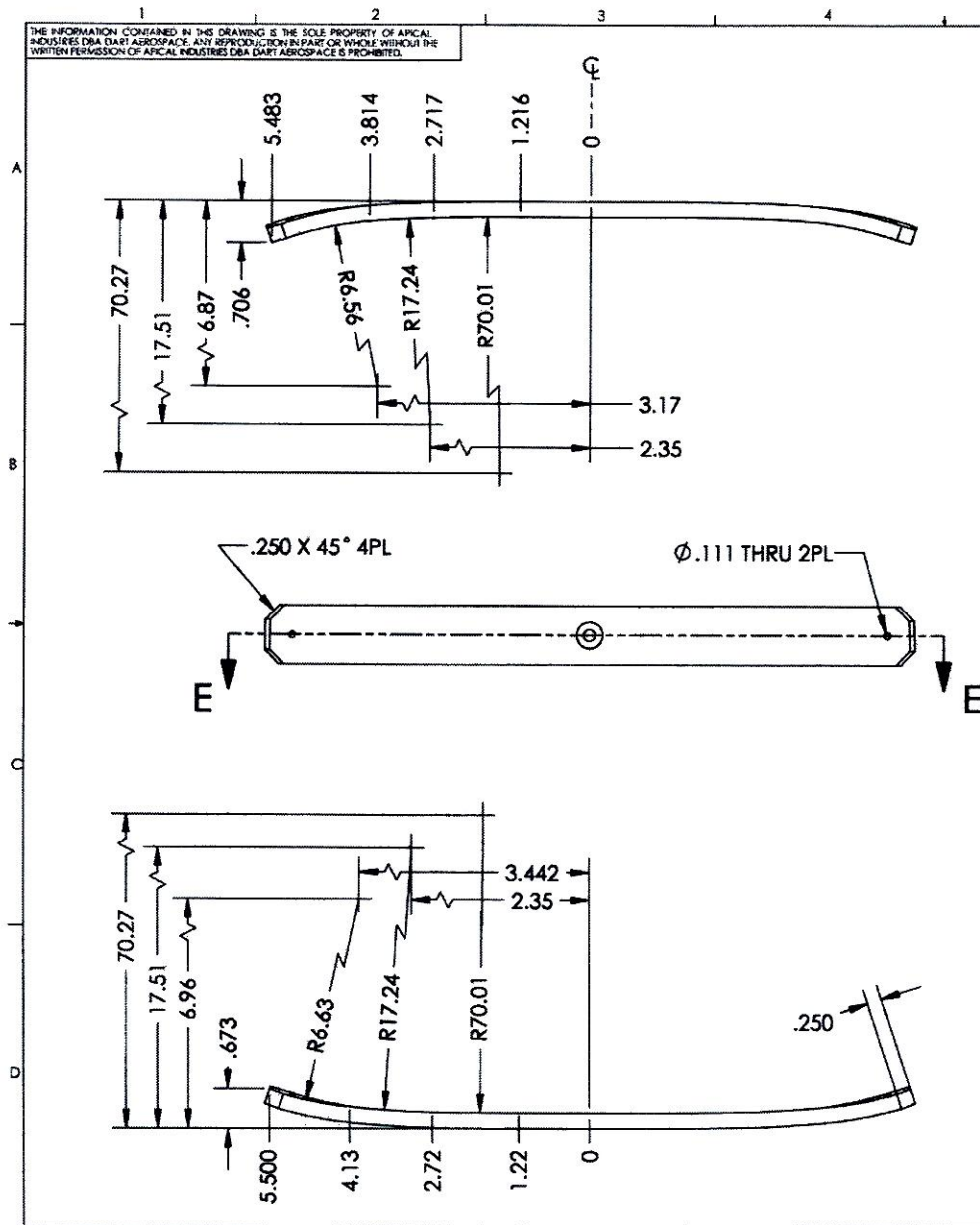
ORIGINAL DATE 11-05-03	3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY L. ANDERSON	CHECKED P. BRAVO	
DRAWING APPROVAL 1.000		
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		
SHEET B	CHG# 0000 07M26	DWG. NO. 647.7800
SCALE NONE		REV. A
		SHEET 5 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

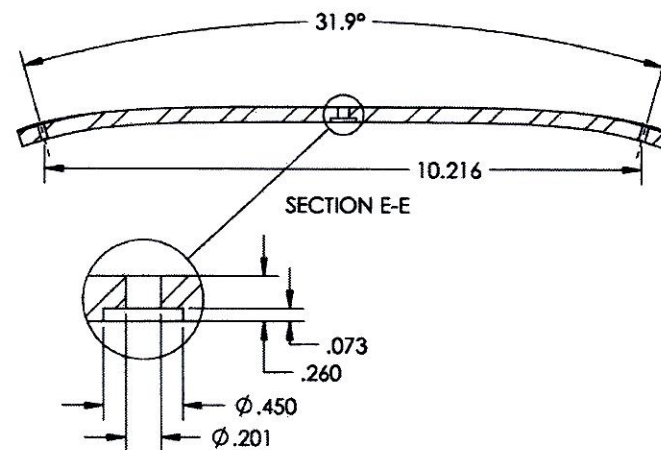


CORONA DATE 11/01/09 DRAWN BY E. ANDERSSON CHECKED P. BRAVO DRAWING APPROVAL P. BRAVO CONTRACT NO.		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300 APICAL INDUSTRIES, INC. (DBA DART AEROSPACE)	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMAL ±.01 2 PLACE DECIMAL ±.005 ANGLES ± 5°		SIZE B CAGE CODE 67MA26 SCALE NONE	DWG. NO. 647.7800 REV. A SHEET 6 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

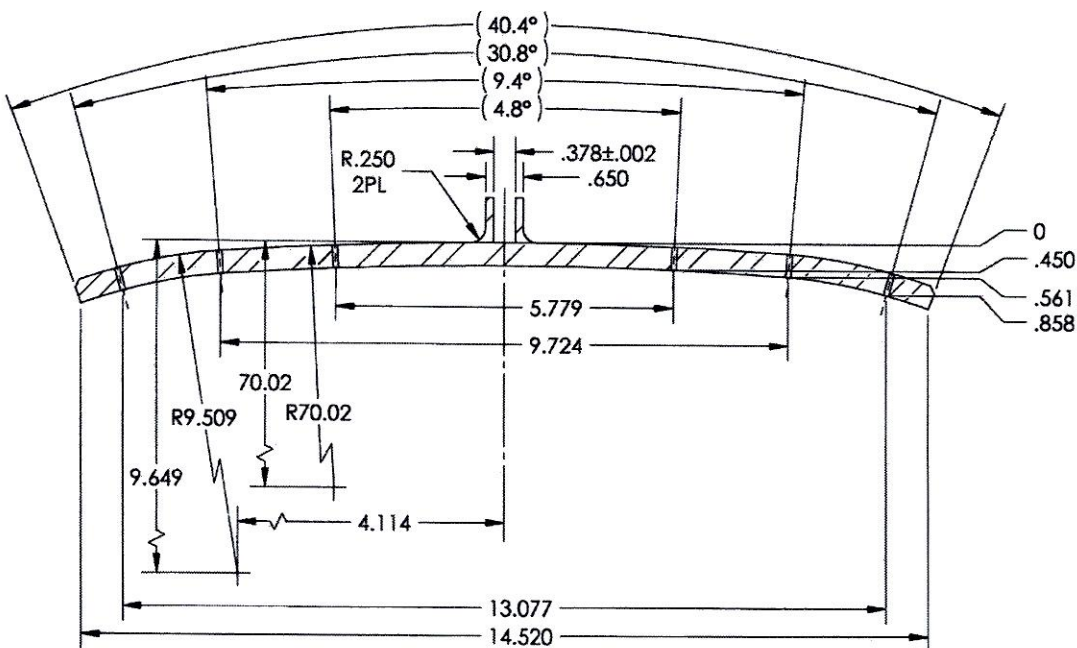
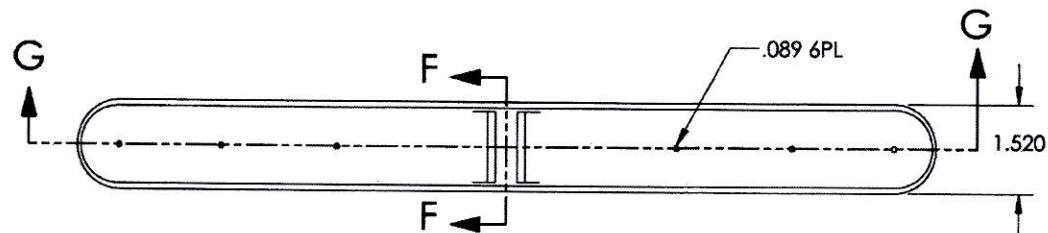


647.7819

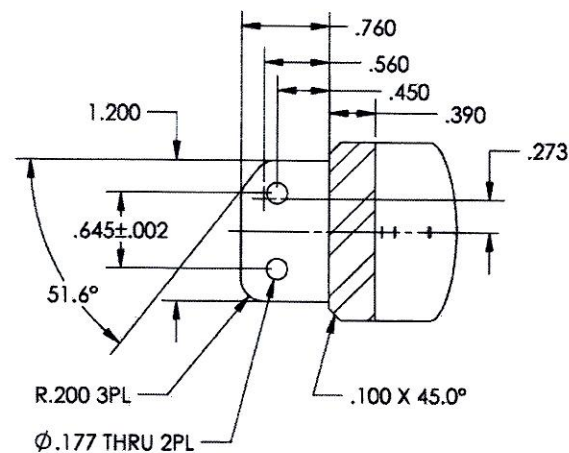
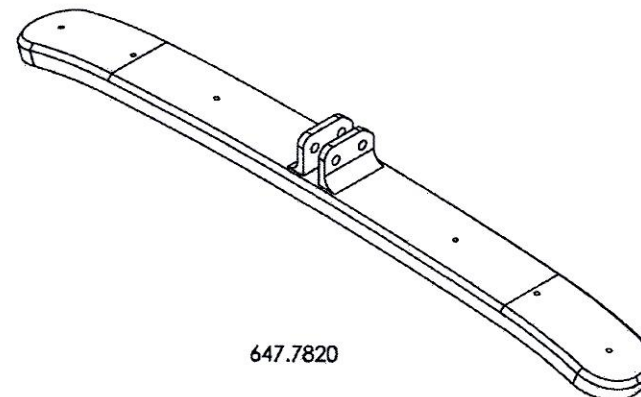


ORIGINAL DATE	11/05/00	DART AEROSPACE		3030 ENTERPRISE CT.
DRAWN BY	E. ANDERSON	VISTA, CA 92081		SUITE A
CHECKED BY	P. BRAYO	(760) 724-5300		
DRAWING APPROVAL		APICAL INDUSTRIES, INC.		
CONTRACT NO.		DBA DART AEROSPACE		
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS ARE IN INCHES				
TOLERANCES ARE:				
3 PLACE DECIMALS .001				
2 PLACE DECIMALS .005				
ANGLES .5°				
SHEET	07/01/06	DWG. NO.	647.7800	REV. A
SCALE NONE		SHEET 7 OF 10		

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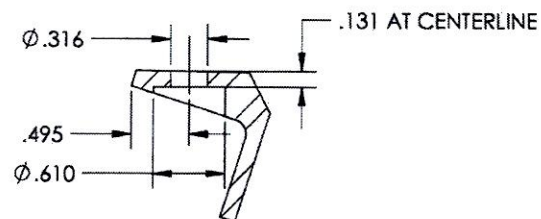
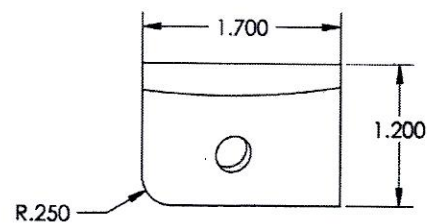
SECTION G-G



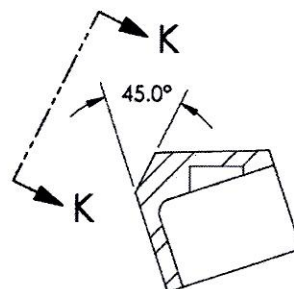
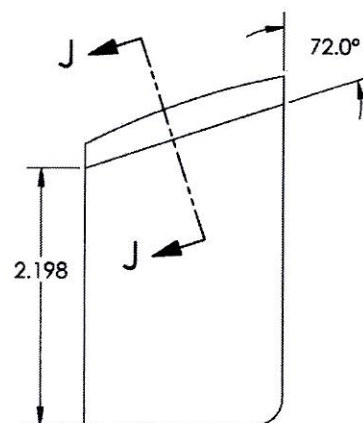
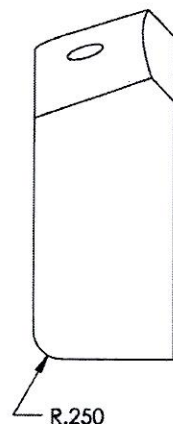
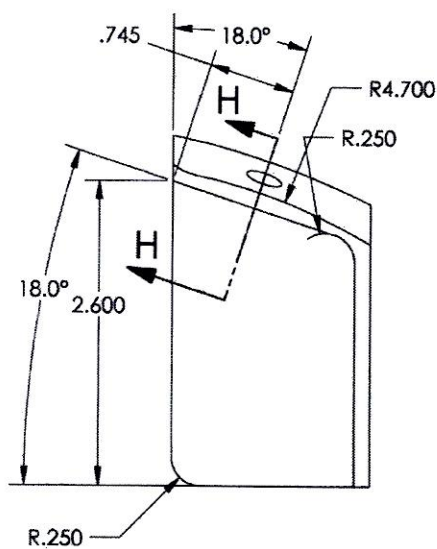
SECTION F-F

ORIGINAL DATE: 11/05/00		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY: E. ANDERSSON	CHECKED: P. BRAVO		
DRAWING APPROVAL: P. BRAVO	DATE: 11/05/00	BRACKET	
CONTRACT NO:		REV. A	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		8 07M26 647.7800	8 OF 10
SCALE: NONE		SHEET	

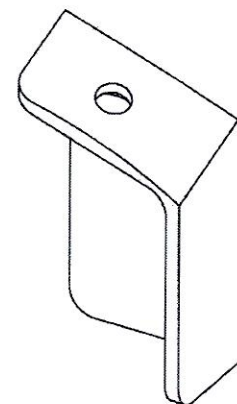
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



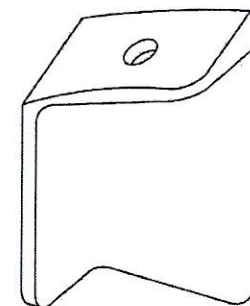
SECTION H-H



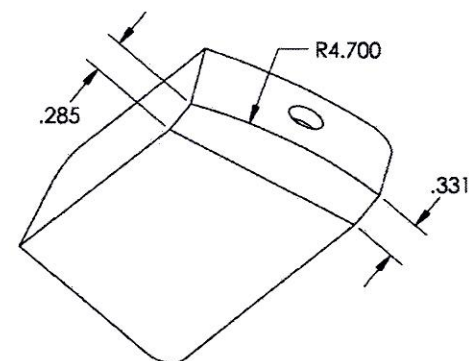
SECTION J-J



647.7821



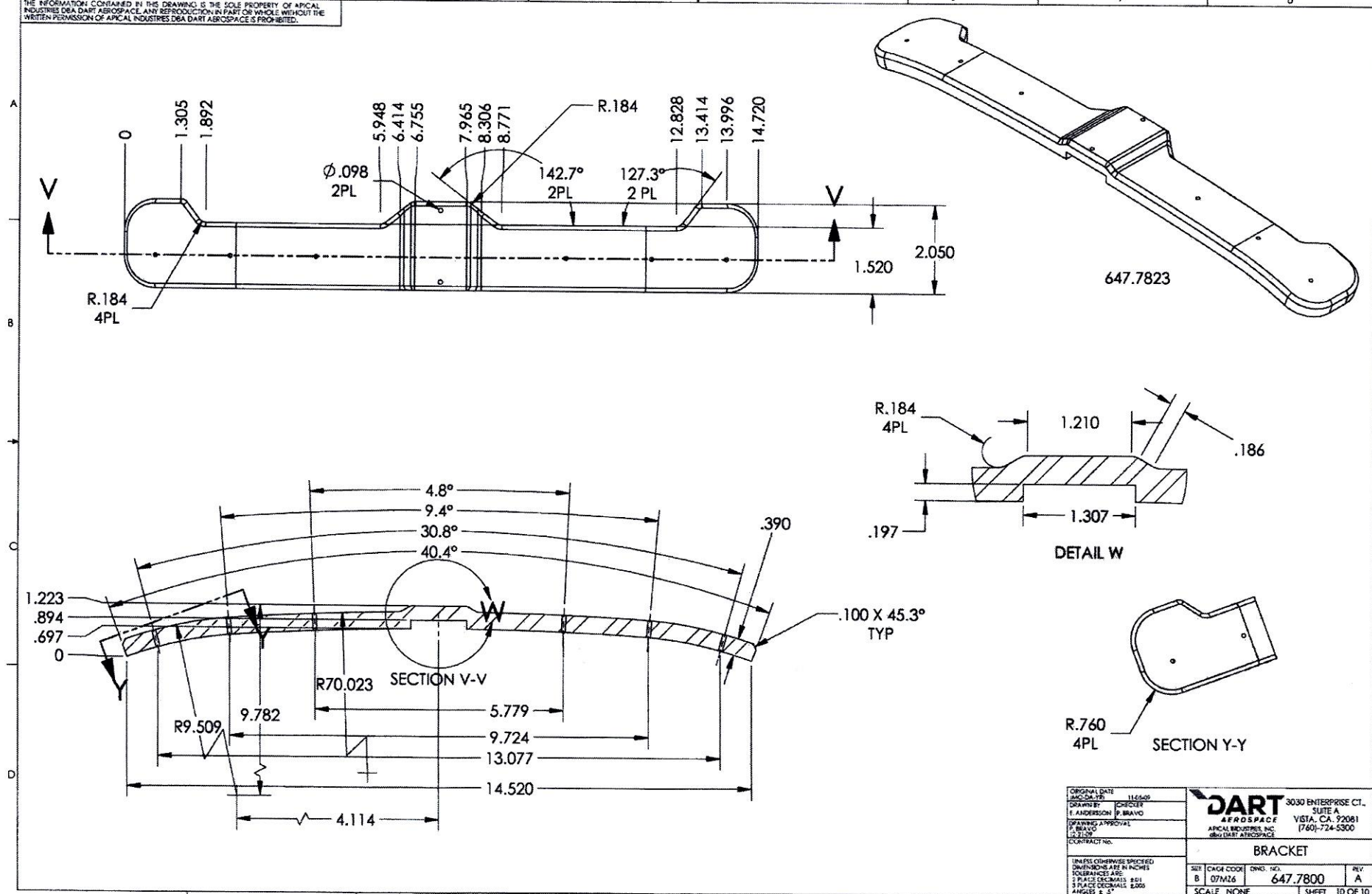
647.7822



SECTION K-K

ORIGINAL DATE (MM-DD-YY) 11-00-00 DRAWN BY: CECILER & REVISOR(S) BY: BAYO DRAWING APPROVA: J. GRAY 11-00-00 COUNTRY OF ORG:	 DART AEROSPACE AERIAL INDUSTRIES INC. 3030 ENTERPRISE C. SUITE A VISTA, CA 92081 (760)-724-5300												
BRACKET													
DIMENSIONS OTHERWISE SPECIFIED UNLESS OTHERWISE AVE. IN INCHES TOLERANCES ARE: 1. SURFACE DIMENSIONS ±.010 2. HOLE DIMENSIONS ±.010 3. HOLE DIMENSIONS ±.005 4. HOLE DIMENSIONS ±.005	<table><tr><th>SIZE</th><th>CAGE CODE</th><th>DWG. NO.</th><th>REV.</th></tr><tr><td></td><td>077M26</td><td>647.7800</td><td></td></tr><tr><td colspan="2">SCALE: NONE</td><td colspan="2">SHEET 9 OF 10</td></tr></table>	SIZE	CAGE CODE	DWG. NO.	REV.		077M26	647.7800		SCALE: NONE		SHEET 9 OF 10	
SIZE	CAGE CODE	DWG. NO.	REV.										
	077M26	647.7800											
SCALE: NONE		SHEET 9 OF 10											

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ORIGINAL DATE 11/15/00	DART AEROSPACE AERIAL INDUSTRIES, INC. 8801 DART AVENUE	3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300				
DRAWN BY T. ANDERSON						
CHECKED BY P. BRAVO						
DRAWING APPROVAL P. BRAVO						
DATE 11/15/00						
CONTRACT NO.	BRACKET					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°						
SER				CAGE CODE	QNG. NO.	REV.
B				07M26	647.7800	A
SCALE				NONE		SHEET 10 OF 10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34644**

Purchase Order Date 12/15/2016

PO Print Date 12/21/2016

Page Number 4 of 7

Order From :

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

VC-ATG001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

613-446-4544

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

153834

VENDOR'S TRUCK

647.7813 CENTER
PLATE REV. A

12/22/2016

Yes

12/22/2016

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

6.00

\$8.75

\$52.50

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377J TYPE I CLASS N

Line Total:

\$52.50

10 154293

647.4115 SHIM REV. N/C

12/22/2016

Yes

12/22/2016

10.00

\$6.25

\$62.50

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377J TYPE I CLASS N

Line Total:

\$62.50

11 154274

644.4122 BUSHING REV.
F2

12/22/2016

Yes

12/22/2016

7.00

\$4.95

\$34.65

FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE 3 CLASS 2, COLOR BLACK

Line Total:

\$34.65

PO Instructions: PRIMER IS SUPPLIED BY DART

Note:

12/21/2016



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 912760

Date: 06-Jan-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

CHANTAL LAVOIE
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
	PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT. IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.		
2 ea	Part: 646.9811 ✓ Upper Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377J, Type I, Class N (Customer Supplied) Job: 20507	Rev: A	Line: 6
4 ea	Part: 647.1712 Gusset Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377J, Type I, Class N (Customer Supplied) Job: 20509	Rev: E	Line: 8
6 ea	Part: 647.7813 Center Plate Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377J, Type I, Class N (Customer Supplied) Job: 20510	Rev: A	Line: 9
DATE: 06 Jan 2017			
CERTIFIED SIGNATURE: J. A. Roth			
RECEIVER SIGNATURE: _____			
Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
CERTIFICATE OF CONFORMANCE			
A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.			

